AMENDMENTS TO THE CLAIMS

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(Currently amended) A method for loading a plurality of liquid samples into a
plurality of through-hole arrays, the liquid samples residing in wells of a microtiter plate
characterized by a well-to-well spacing, the through-hole arrays characterized by a hole
spacing that is an integral fraction of the well-to-well spacing of the microtiter plate, the
method comprising:

stacking the plurality of through-hole arrays in registration, wherein each of the plurality of through-hole arrays is separated by a distance s, wherein s is a non-zero dimension:

positioning an array of transfer members, each transfer member disposed for drawing liquid from a distinct well of the microtiter plate:

drawing liquid samples from the wells of the microtiter plate to each of the transfer members:

registering the array of transfer members with a subset of through-holes of the through-hole arrays, wherein the array of transfer members is positioned in proximity to an outermost through-hole array; and

applying a pressure to the transfer members to dispense dispenseing the liquid samples from the transfer members into through-holes of the through-hole arrays, wherein a fluidic bridge is established between registered holes in the plurality of through-hole arrays:

removing the pressure from the transfer members to break the fluidic bridge; thereby depositing liquid samples from each transfer member into a plurality of through-holes.

(Cancelled)

- 3. (Original) A method in accordance with claim 1, wherein the step of dispensing the liquid samples from the transfer members includes expelling liquid from a capillary.
- (Original) A method in accordance with claim 1, wherein the step of dispensing the liquid samples from the transfer members includes expelling liquid from tubing of a picette.

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(Original) A method in accordance with claim 1, wherein the step of dispensing the liquid samples from the transfer members includes expelling liquid by means of a syringe.

- (Original) A method in accordance with claim 1, wherein the step of drawing liquid samples from the wells of the microtiter plate includes drawing liquid into a capillary.
- (Original) A method in accordance with claim 1, wherein the step of drawing liquid samples from the wells of the microtiter plate includes drawing liquid into tubing of a pipette.
- (Original) A method in accordance with claim 1, wherein the step of drawing liquid samples from the wells of the microtiter plate includes drawing liquid by means of a syringe.
- (Previously presented) A method in accordance with claim 1, wherein during the step of dispensing the liquid samples from the transfer members, surface tension draws fluid into the through-holes.
- (Previously presented) A method in accordance with claim 1, wherein during the step of dispensing the liquid samples from the transfer members, surface tension holds fluid in the through-holes.
- (Cancelled)
- 12. (Currently amended) A method in accordance with claim $\underline{1}$ 44, wherein s is less than the hole spacing of the plurality of through-hole arrays.
- (Cancelled)
- 14. (New) A method for loading a plurality of liquid samples into a plurality of through-hole arrays, the liquid samples residing in wells of a microtiter plate

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characterized by a well-to-well spacing, the through-hole arrays characterized by a hole-to-hole spacing, the method comprising:

stacking the plurality of through-hole arrays in registration;

providing a capillary array having a first end characterized by a center-to-center spacing about equal to the well-to-well spacing and a second end characterized by a center-to-center spacing about equal to hole-to-hole spacing;

positioning the first end of the of the capillary array in a plurality of the wells of the microtiter plate;

positioning the second end of the capillary array in a plurality of the wells of a first of the plurality of through-hole arrays; and

applying a negative pressure adjacent to a last of the plurality of through-hole arrays.

15. (New) A method for loading a plurality of liquid samples into a plurality of through-hole arrays, the liquid samples residing in wells of a microtiter plate characterized by a well-to-well spacing, the through-hole arrays characterized by a hole-to-hole spacing, the method comprising:

stacking the plurality of through-hole arrays in registration;

providing a flexible transfer member array having a first end characterized by a center-to-center spacing about equal to the well-to-well spacing and a second end characterized by a center-to-center spacing about equal to hole-to-hole spacing;

positioning the first end of the of the flexible transfer member array in a plurality of the wells of the microtiter plate;

positioning the second end of the flexible transfer member array in a plurality of the wells of the through-hole arrays; and

drawing the array of flexible transfer member through the plurality of wells, thereby loading the plurality of liquid samples into the plurality of through-hole arrays.

 (New) A method in accordance with claim 15, wherein the flexible transfer member array comprises a shape memory alloy.